#### Montana Audubon

## Binocular Use and Field Behavior Lesson Plan

#### Goals:

- Introduce students to the parts of binoculars
- Practice adjusting and focusing binoculars
- Instruction in and practice with how to locate birds w/binoculars
- Students participate in a controlled binocular use activity
- Students participate in bird watching on their playground w/binoculars using field behaviors determined by the group

#### Materials needed:

- Binoculars (one pair for each student team of two)
- Several familiar tools (hammer, pliers, etc.)
- Typed instructions (14 pt. type) for transition from listening to doing during Concept Development
- · Cookie recipe segments in plastic covers
- Sidewalk chalk and masking tape for marking binocular focus areas
- Push pins and masking tape for hanging recipe segments to outside surfaces
- Chocolate chip cookies (one for each student)

### What to do:

## INTRODUCTION/IDEAS EXPLORATION (5 minutes)

- Recent bird watching highlights:
  - Steve: Peregrine falcon diving; northern flickers in pairing behavior; red-winged blackbirds setting up territories
  - Students: What have you been seeing?

### CONCEPT DEVELOPMENT (30 minutes)

Teaching (students listen): Binocular Parts and How to Use Them

- Show tools and discuss their appropriate uses and what their advantages are to the user.
- Display binoculars (discuss quality and respect)
  - What are they used for?
  - How should we treat them?
- Discuss parts of binoculars (eye pieces, magnifying lens, width adjustment, focus wheel, lens caps, neck strap)
  - Discuss lens care, keeping strap around the user's neck, etc. RESPECT the tool!

• Demonstrate moving binoculars (keep your eye on the object and bring binoculars to your eyes) to find the bird or other item you are looking for.

## Activity (students practice): Binocular Practice in the Classroom

- Students should be placed in teams of two
- (list on board) Explain that teams are to practice wearing binoculars straps around their necks, adjusting for their eye width and focusing
- Pass out binoculars
- After five minutes or so of practice, place typed Transition Instructions
  on the far side of the room, have students focus, read and follow:

#### **Transition Instructions**

- 1. Read these instructions SILENTLY to yourself.
- 2. When you have finished reading the instructions, pass the binoculars to your partner if they have not read them.
- 3. With your partner, go get a piece of unused paper, a pencil, and something solid to write on (a clipboard or a book).
- 4. Sit together and wait silently for further instructions.

## Discussion (students make decisions): Appropriate Field Behavior

- Tell students that we are now going to go outside to use binoculars
- Brainstorm a list that will guide the group's field behavior (Things like: No running; fast movements are not helpful; whisper voices; ability to freeze movement; etc.)
- Have students make a commitment to abide by the guidelines

# APPLICATION (50 minutes)

Activities: Using Binoculars

Part 1 Recipe Activity

- Explain activity:
  - Each team will be collecting and recording the recipe for chocolate chip cookies;
  - Each team will move from place-to-place (point out locations), stand behind the line, use binoculars to read part of the recipe, write it down, go to the next place, etc.
  - When you have the complete recipe, report to me and receive your reward;
  - Do activity.